Approved For Release 2007/07/25 : CIA-RDP78B04747A001000010045-7

23 April 1964

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SUBJECT:

Evaluation of the

Model LB-46

Microscope Base

REFERENCE: Memorandum for Chief, P&DS, NPIC, same subject,

dated 17 February 1964, from Chief, CIA/PID (NPIC)

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1. This MFR is a rebuttal to the statements, in the referenced memorandum, which I feel to be inaccurate or to be unfair comparisons. Paragraph 1 of the reference states | Model LB-46 microscope base has been tested by PID PI's to determine its acceptability in place of the Bausch & Lomb bases ordered by PID ... " (Underscore by the undersigned).

Reference

Comment

Para 1 b (1)

"base is too high, making viewing 'awkward'." The B & L light base stage is about 3 inches high; the LB-46 stage is about 3 3/4 inches high. The 3/4 inch increased height is part of the price that is paid for the "more even illumination" and is due to the size of the high voltage transformer. A major redesign would be required to either make a smaller transformer, if feasible, or to change the width and depth of the light base to permit relocation of the transformer. 25X1

Para 1 b (2)

"support column in a poor position." placed the column to one side so the user would be able to scan the film being viewed by

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moving the microscope in the X and Y directions.

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is changing the location of the support column to meet the requirements of PAG and undoubtedly would have done so for PID if PID had been really

interested.

Declass Review by NIMA/DOD

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SUBJECT:	Evaluati	ion of the Model LB-46 Microscope Base
Reference		Comment
Para 1 b	(3)	"fixed viewing stage." This is hardly a fair comparison "to determine its acceptability in place of the Bausch and Lomb" because the B & L's viewing stage is also fixed.
Para 1 b	(4)	"difficulty in changing height of microscope and danger of slipping on support column." This statement appears to be self-contradictory. If it is so difficult to change the height why would there be a "danger of slipping on support column"? When I suggested that the "danger of slipping" could be minimized by the use of a sleeve and 25X1 clamping ring, both of which are used by on their M-5 microscope, I was told that there was not enough time to wait for these changes.
Para 2		"Conclusions." At the time the LB-46 was given to PID for evaluation, they were told that the 25X1 B & L light bases would not arrive at the
25X1		for another three weeks. I also told
25X1		them that (Vice President,
25X1		had stated that he could deliver the necessary number of LB-46's in less than three weeks and, on this contract, would deliver the LB-46's at the same price as the B & L light bases. The three weeks would have been ample time to make the sleeves and clamping rings. Since the LB-46's had not been fabricated at that time, changing the location of the column to the rear center would not have been difficult. This is being
25X1		done for the LB-46's now on order by PAG.
Para 3		"Recommendations: That the base be redesigned with the following considerations:
Para (a)		"Height of the base be reduced." As stated above, this would require a major redesign. The B & L light base might also be better if it were to be given a major redesign.

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SUBJECT: Evaluati	on of the Model IB-46 Microscope Base			
Reference	<u>Comment</u>			
Para's (b) and (c)	As stated above, these changes would not have been too difficult nor would they have required a significant amount of time.			
Para (d)	Dividing the viewing stage in half would require a major redesign. This should not be used in a comparison with the B & L light base which also has a single viewing stage.			
Para (e)	This is not part of the B & L light base and, therefore, should not be used in the comparison.			
Para (f)	The illumination (or luminosity) of the LB-46 was not only more even but was slightly higher than the B & L light base. The new production model of the LB-46 will emit about 40% more light than the old model (1400 ft-L. instead of 1000 ft-L). Another model of the LB-46 will emit about 2100 ft-L.			
Para ⁴ 25X1 25X1	started the design of the IB-46 in August 1962, in conjunction with the Bausch & Lomb Optical Company, as a replacement for the B & L light base. has since manufactured and sold a number of the IB-46's as shelf items. Therefore, the IB-46 could hardly be considered a prototype.			
2. If PID has specific requirements for a piece of PI equipment they should make those requirements known to P&DS in writing as a staff study. It appears from the referenced memorandum that what PID wants is an entirely new device having little resemblance to either the or the B & L light bases.				
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	Development Branch, P&DS			

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